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Certificate No: LR23133377SF Issue Date: 28/03/2023 Expiry Date: 27/03/2028

# **Certificate Of Fire Approval**

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer Rockwool International A/S

Address Hovedgaden 501, 2640 Hedehusene, Denmark

Type A-30 Deck

**Description** Fire Resisting 'A' Class Deck – Type: "A30 Deck SeaRox FM 6030 ALU" steel deck

insulated on underside side with one layer of rockwool insulation material

(30mm thick, 50kg/m3 density)

Trade Name "A30 Deck SeaRox FM 6030 ALU"

Specified Standard IMO Res. MSC.307(88) - (2010FTP Code) Annex 1 Part 3

IMO MSC.1/Circ.1435

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

### **Bruce McDonald**

Technical Authority - Statutory to Lloyd's Register North America, Inc. A member of the Lloyd's Register group

1330 Enclave Parkway, Houston, Texas, 77077, United States

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Reference: UKITSO/FIRE/TA/MW/BM/WP46112601/PRJ11100361084

## **ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23133377SF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

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#### **APPROVAL DOCUMENTATION**

Rockwool Technical Insulation Drawing No. R-022, dated 2015-10-13.

#### **TEST REPORTS**

Danish Institute of Fire and Security Technology, Jernholmen 12, DK-2650 Hvidovre, Denmark; Test Report No. PGA10769A dated 5th January 2016.

#### **CONDITIONS OF CERTIFICATION**

- 1. When used in conjunction with an approved A Class deck.
- 2. A-30 steel deck insulation system 'A30 Deck SeaRox FM 6030 ALU' consisting of: steel deck insulated on underside with one layer of rockwool insulation "SeaRox FM 6030 ALU" (30mm thick, 50 kg/m³ density), manufactured by Rockwool Technical Insulation, coated on the fire hazard side with 0.25mm thick 'AG 18-2/2-20' reinforced aluminium foil manufactured by Röthel GmbH & Co. KG. The Insulation applied on the steel plate and around the stiffeners. Total thickness of the insulation is 30mm.
- 3. Insulation on the steel plate retained by 3mm diameter steel pins and 30mm diameter washers at maximum 300mm horizontal, 500mm staggered vertical, 300mm diagonal centres, and 175mm from insulation joints with 2 pin rows, 75mm from insulation joints with 1 pin rows. Insulation wrapped around the stiffeners.
- 4. Maximum width of insulation blankets following installation: 1000mm.
- 5. Insulation fixing method should be same as tested arrangement in all cases.
- 6. Composition and application of insulation material to be maintained in production and use in accordance with originally tested composition formula and method of application, and manufacturer's instructions.
- 7. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
- 8. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

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**Expiry Date:** 

## **PLACES OF PRODUCTION**

Roxul Asia Sdn. Bhd. Rockwool A/S

Moss Trondheim Norway

75450 Melaka 8300 Tapolca Malaysia Hungary

**Rockwool BV** Rockwool Peninsular S.A.U.

NL-6045 JG Roermond The Netherlands

Rockwool a.s. E-31380 Caparroso Spain Czech Republic

**Rockwool Ltd** Roxul Rockwool Insulation India Pvt. Ltd.

Pencoed Plot - Z/4, Dahej SEZ, Dahej Bridgend District Bharuch - 392 130 Wales, CF35 6NY Gujarat **United Kingdom** India

Rockwool A/S Rockwool A/S Rockwoolvej Industrivej Ø Doense DK-6580 Vamdrup DK-9500 Hobro

Denmark

Denmark

735 31 Bohumin 3

**Rockwool Hungary** 

**Deutsche Rockwool GmbH & Co. OHG** 

Ruhrstrasse 13 DE-86633 Neuburg a.d. Donau

Germany

B\_M'Doul

Bruce McDonald **Technical Authority-Statutory** Lloyd's Register Americas

## **Supplementary Type Approval Terms and Conditions**

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)

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